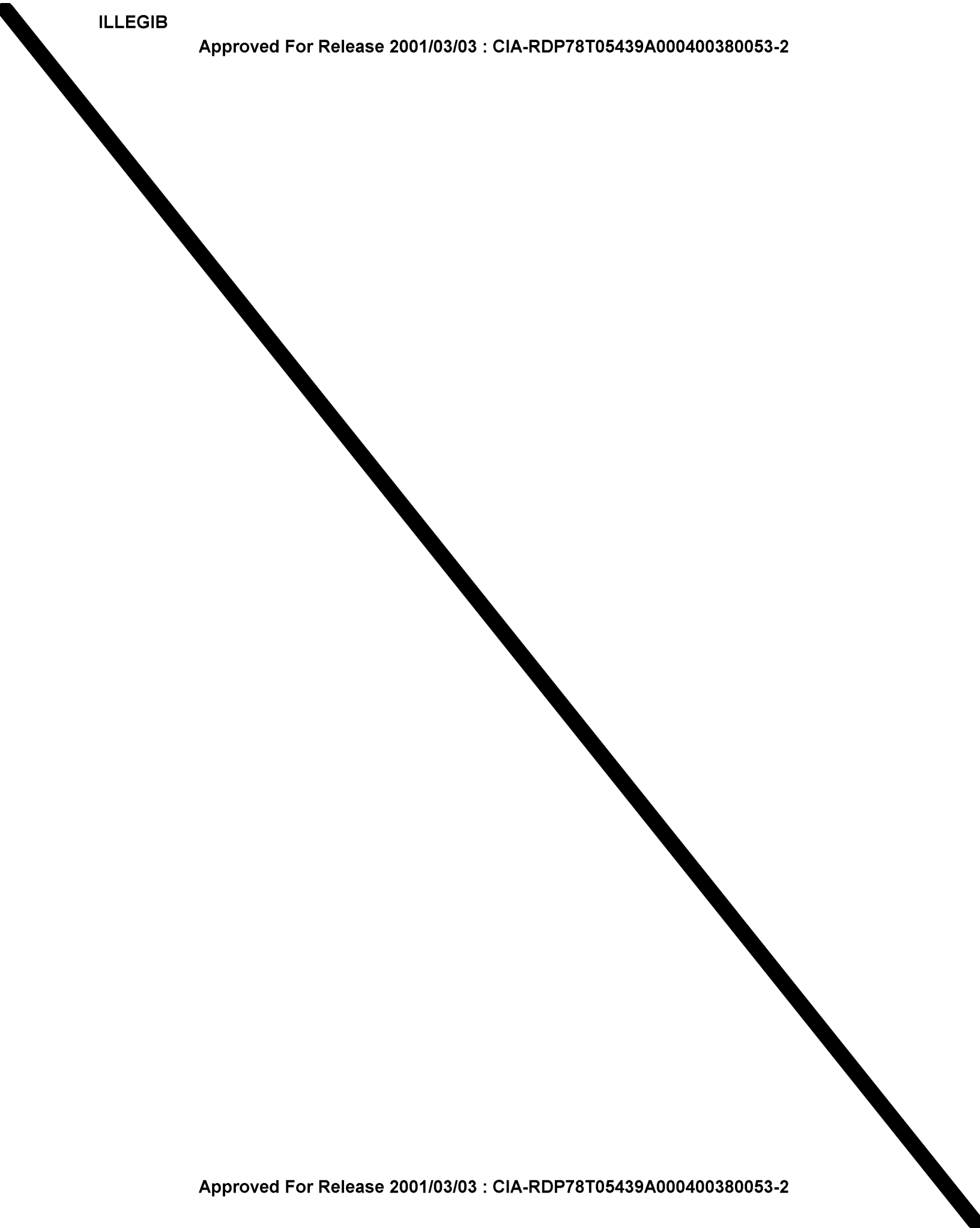

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TCS-80220/65

February 1965

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PHOTOGRAPHIC INTERPRETATION REPORT

MOSCOW GUIDED MISSILE ENGINE PLANT 456 KHIMKI, USSR

25X1D

[redacted]

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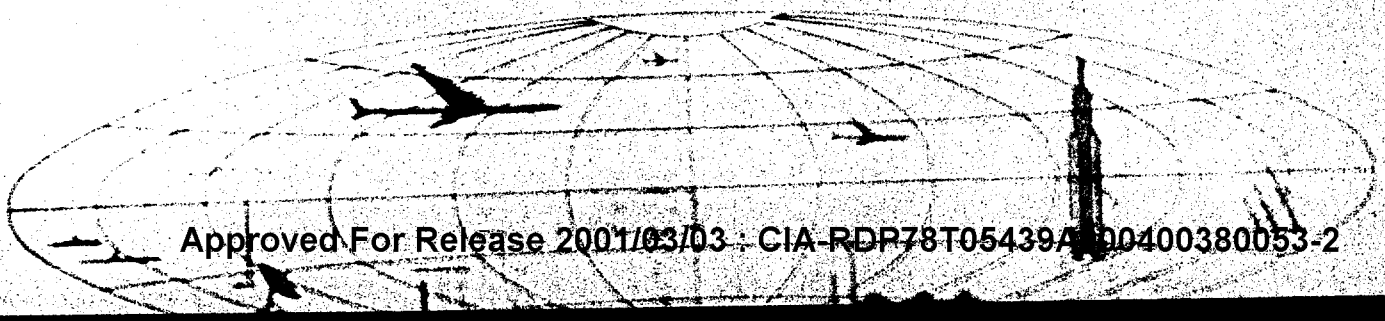

MOSCOW GUIDED MISSILE ENGINE PLANT 456, KHIMKI, USSR

[redacted] 25X1D

SUMMARY

The Moscow Guided Missile Engine Plant 456, Khimki, USSR, consists of an assembly and fabrication plant and a static test facility. A previous report presented a detailed study of the assembly and fabrication plant, but the quality of the available KEYHOLE photography permitted only confirmation of the presence of the test facility. 1/ Higher-quality photography of [redacted] 25X1D permits identification of 3 vertical test stands, a possible test stand, and support facilities in the test facility, and it also permits some refinement of building dimensions in the assembly and fabrication plant. Comparative photography of the installation indicates that no significant change has taken place since [redacted] 25X1D

INTRODUCTION

The Moscow Guided Missile Engine Plant 456, Khimki, USSR [redacted] 25X1A is located at 55-54N 37-27E, 11 nautical miles (nm) northwest of the center of Moscow in the suburb of Khimki (Figure 1). The installation consists of an assembly and fabrication plant, designated in this report as the Plant Area, and a static test facility, designated as the

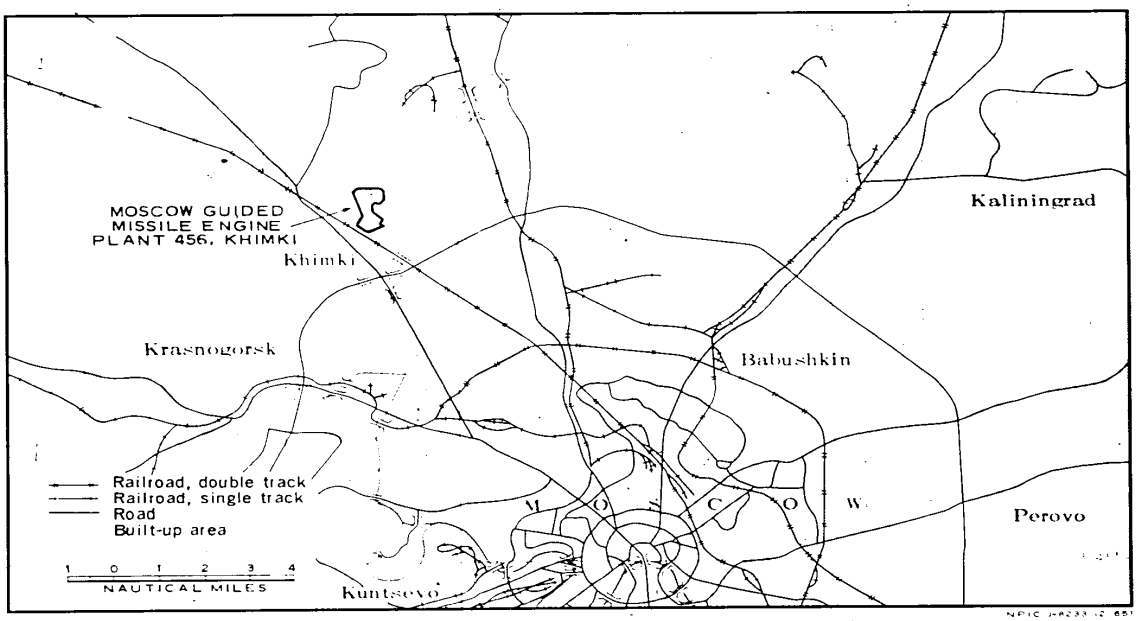

FIGURE 1. LOCATION MAP.

Test Area (Figures 2 and 3). Alternate names for the installation are as follows: 1) Special Design Bureau and Experimental Factory for Missile Engine Development, Moskva/Khimki, and 2) Moscow: Special Design Bureau (OKB)/ Plant No 456, Khimki. Facilities of the Special Design Bureau and those of Plant 456 are reported to be mingled or shared. 2/

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This report updates a previous report based on [redacted] and on [redacted] raphy. 1/ No significant changes appear to have taken place at the installation [redacted] however, KEYHOLE photography o [redacted] through [redacted] now permits firm identification of test stands and other significant details of the Test Area.

PLANT AREA

The Plant Area consists of 15 major buildings and numerous smaller structures and sheds (Figures 2 and 3). The buildings have a total roof coverage of 1,265,000 square feet; 4 large assembly buildings represent 77 percent of the total, or about 980,000 square feet.

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There have been no significant changes in the Plant Area since it was first seen on KEYHOLE photography in [redacted] Only minor changes took place in the Plant Area during the period covered by this report [redacted] The most notable findings reported here are revised building dimensions derived from photography of [redacted] which is of higher quality than was previously available. The building dimensions and other significant details are shown in Figure 3.

TEST AREA

The Test Area consists of 3 vertical test stands, a possible vertical test stand, at least 1 probable assembly/checkout building, and other support buildings (Figures 2 and 3); it is road served only. This area and the Plant Area are enclosed by the same perimeter fence, the two areas being connected by a fenced corridor (Figure 3). A perspective view of the Test Area is presented on Figure 4.

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The Test Area was not present in [redacted] and was first seen on [redacted] KEYHOLE photography; however, collateral sources report its presence prior to [redacted] 2/ Details of the test stands and other features of the area could first be distinguished on KEYHOLE photography of [redacted] A comparison of earlier with recent photography indicates that there were no significant changes between [redacted]

The 3 vertical test stands (items 1, 2, and 3, Figure 3) and the possible test stand (item 4) are tall structures built on the brink of a bluff. The stands are served by large-diameter overhead pipes which pass by or through adjoining support structures. A large circular tank probably used for effluent collection is built on the valley floor below Test Stands 1 and 2. A large shop building (item 10) and a probable checkout building (item 13) are the most notable support buildings.

The stands appear to be comparatively small, and other factors would also limit the size of the engines that can be tested. Engine size would be limited by the fact that access roads to the stands pass under the overhead pipelines, by the proximity of the support structures which are within 100 feet of the stands, and by the position of the tank below the stands.

POSSIBLY RELATED AREAS

The former Moscow/Khimki Airfield North just west of Plant 456 was replaced by a new building area and by a possible missile guidance

FIGURE 2. MOSCOW GUIDED MISSILE ENGINE PLANT 456, KHIMKI, [redacted]

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ITEM	LENGTH (FT)*	WIDTH (FT)*	ROOF COVERAGE (SQ FT)
	TEST AREA		
1	50 x	35	1,750
2	50 x	50**	2,500
3	50 x	50**	2,500
4	30 x	20	600
5	65 x	40	2,600
6	185 x	90	16,650
7	130 x	45	5,850
8	150 x	30	4,500
9	170 x	45	7,650
10	360 x	100	36,000
11	235 x	70	11,200
12	200 x	60	12,000
13	185 x	100	18,500
14	185 x	60	11,100
	OTHERS		31,600
	PLANT AREA		
15	680 x	60	40,800
16	375 x	210	78,750
17	275 x	80	22,000
18	310 x	90	27,900
19	185 x	85	15,725
20	210 x	80	16,800
21	465 x	275	127,875
22	240 x	110	20,400
23	920 x	765	675,275
24	465 x	80	37,200
25	260 x	90	23,400
26	180 x	70	12,600
27	205 x	65	10,775
28	560 x	175	98,000
29	IRREGULAR		26,000
	OTHERS		31,500
	PLANT TOTAL		1,265,000

*Overall dimensions
**Tower only

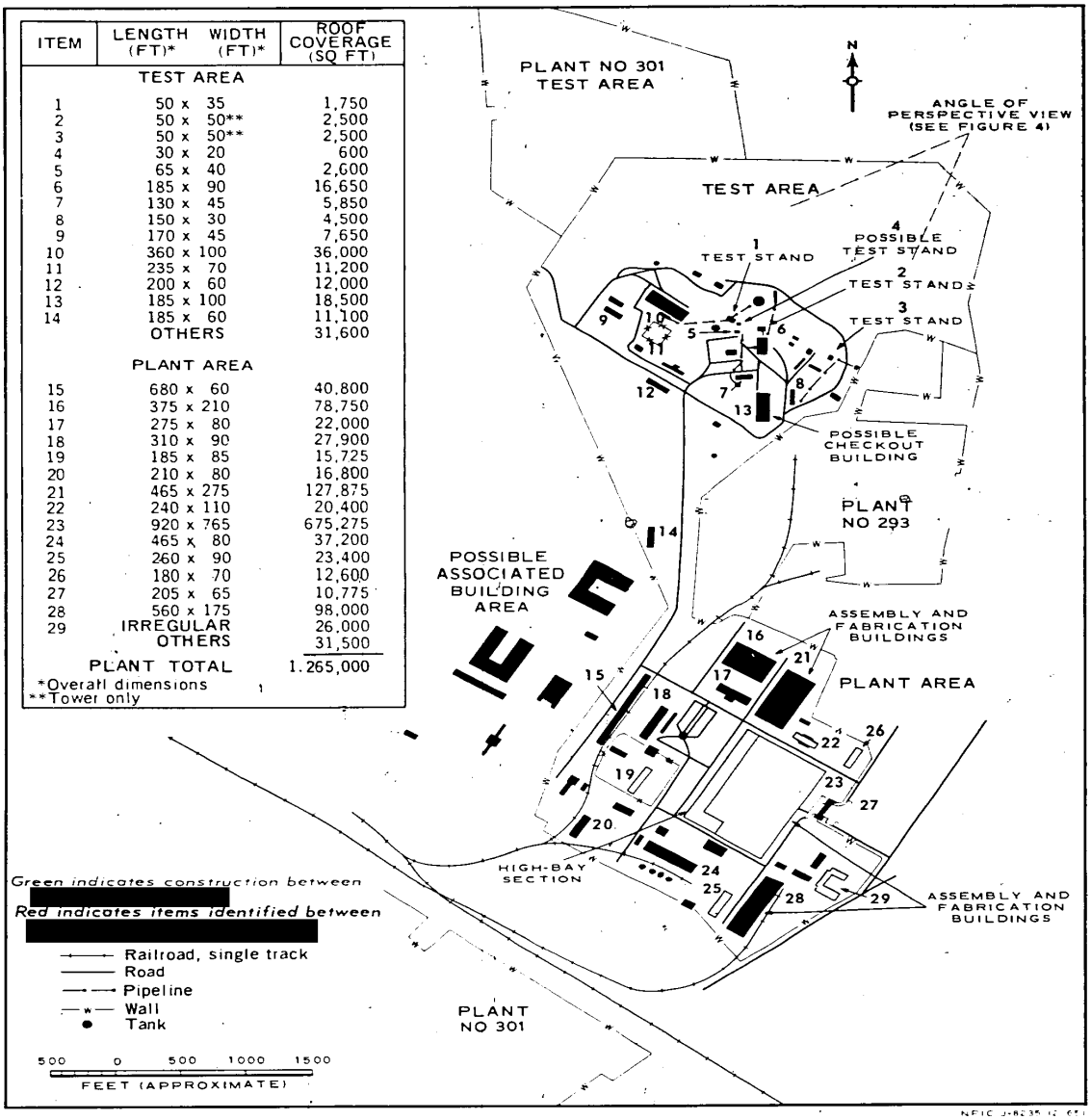

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FIGURE 3. LAYOUT OF MOSCOW GUIDED MISSILE ENGINE PLANT 456, KHIMKI.

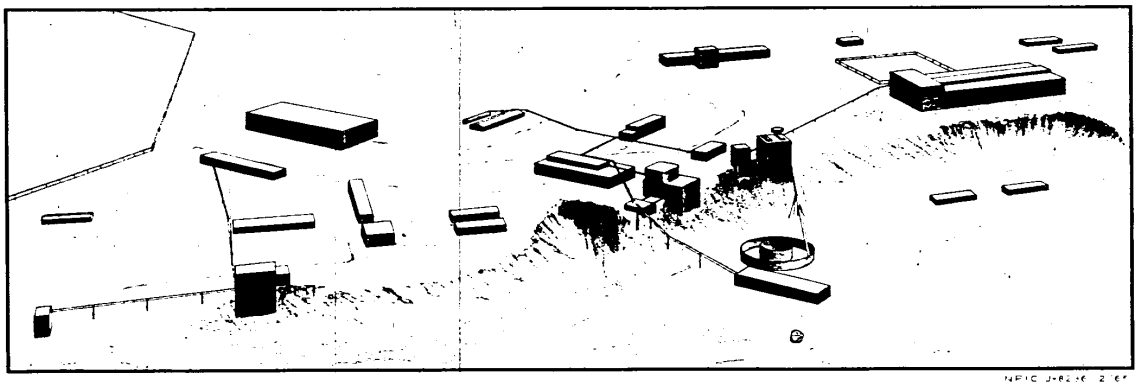

FIGURE 4. PERSPECTIVE VIEW OF THE TEST AREA.

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grid sometime prior to [redacted] (Figures 2 and 3). These facilities may be related to Plant 456. The new building area on the southeast edge of the former airfield was under construction

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when first seen in [redacted] and now appears almost complete (Figure 3). It contains 7 major structures, the most notable being a large multistory building and 2 large U-shaped buildings. The bulk of the airfield was converted into the possible missile guidance calibration grid (Figure 2). It consists of 2 sets of grids, 2 towers, 2 radome-type structures and several buildings. The radome-type structures are spherical and are probably the spherical objects that have been observed at Plant 456 by ground observers. 1/

REFERENCES

PHOTOGRAPHY

25X1D

[redacted]

MAPS OR CHARTS

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1. NPIC. R-128 64, *Moscow Guided Missile Engine Plant 456, Khimki, USSR*, Feb 64 (TOP SECRET RUFF)

2. CIA. SI S1-59, *Special Design Bureau and Experimental Factory for Missile Engine Development, Moskva Khimki*, 2 Oct 59 (SECRET)

REQUIREMENT

CIA. C-RR4-81,679

NPIC PROJECT

N-863 64 (partial answer) 25X1A